

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"US 20050266299"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2008/09/22 13:50
S2	0	(06-036803 11- 204148 64-077432 2002-260673 2000- 030749 2003-217679 2002-260673)	JPO	OR	ON	2008/09/22 14:28
S3	5	("06036803" "11204148" "64077432" "2002260673" "2000030749" "2003217679" "2002260673")	JPO	OR	ON	2008/09/22 14:29
S4	13	("06036803" "11204148" "64077432" "2002260673" "2000030749" "2003217679" "2002260673")	JPO; DERWENT	OR	ON	2008/09/22 14:29
S5	2	"US 20070182247"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2008/09/22 18:09
S6	1876	320/129 320/139 320/135 320/136	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:02
S7	168	S6 and (battery with (puls\$3 or pulsating or intermittent\$2 or periodic or alternating or periodical\$2 or interval) with (charg \$3 with discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:07

S8	24	S6 and (battery with (puls\$3 or pulsating or intermittent\$2 or periodic or alternating or periodical\$2 or interval) with (charg\$3 with discharg\$3)). AB.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:07
S9	110175	MITSUI.AS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:17
S10	723	S9 and (okutu or yoshikawa).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:17
S11	6	S10 and (battery same (charg\$3 with discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:17
S12	6	S10 and (battery same (charg\$3 same discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:18
S13	6	S10 and (battery same (charg\$3 and discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/30 18:18
S14	9	("4016473"   "4829225"   "5621297"   "5710504"   "6118678"   "6194093"   "6204638"   "6404165"   "6556424").PN. OR ("6836098").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/30 18:28
S15	1	"6366056".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/14 17:31

S16	2	"US 20050266299"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/03/14 18:22
S17	0	(06-036803 11- 204148 64-077432 2002-260673 2000- 030749 2003-217679 2002-260673)	JPO	OR	ON	2009/03/14 18:22
S18	5	("06036803" "11204148" "64077432" "2002260673" "2000030749" "2003217679" "2002260673")	JPO	OR	ON	2009/03/14 18:22
S19	13	("06036803" "11204148" "64077432" "2002260673" "2000030749" "2003217679" "2002260673")	JPO; DERWENT	OR	ON	2009/03/14 18:22
S20	2	"US 20070182247"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/03/14 18:22
S21	2000	320/129 320/139 320/135 320/136	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S22	176	S21 and (battery with (puls\$3 or pulsating or intermittent\$2 or periodic or alternating or periodical\$2 or interval) with (charg \$3 with discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S23	25	S21 and (battery with (puls\$3 or pulsating or intermittent\$2 or periodic or alternating or periodical\$2 or interval) with (charg \$3 with discharg\$3)). AB.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22

S24	111476	MITSUI.AS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S25	723	S24 and (okutu or yoshikawa).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S26	6	S25 and (battery same (charg\$3 with discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S27	6	S25 and (battery same (charg\$3 same discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S28	6	S25 and (battery same (charg\$3 and discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/14 18:22
S29	10	("4016473"   "4829225"   "5621297"   "5710504"   "6118678"   "6194093"   "6204638"   "6404165"   "6556424").PN. OR ("6836098").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/14 18:22
S30	387	320/129,139.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:04

S31	280	S30 and (charg\$3 and discharg\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:05
S32	16	S31 and (puls\$3 and paus\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:06
S33	107	S30 NOT (S31 or S32)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:09
S34	150	(US-20050266299-\$ or US-20050221172-\$ or US-20060141352-\$ or US-20070131268-\$ or US-20010051125-\$ or US-20020009642-\$ or US-20020012625-\$ or US-20030165745-\$ or US-20030180616-\$ or US-20030185742-\$ or US-20040053136-\$ or US-20050069774-\$ or US-20050118509-\$ or US-20050158550-\$ or US-20060078799-\$ or US-20060134523-\$ or US-20060199294-\$ or US-20070154809-\$ or US-20070154812-\$ or US-20070259271-\$ or US-20080171263-\$ or US-20090104517-\$ or US-20090117469-\$ or US-20090162751-\$ or US-20030003363-\$ or US-20030190499-\$).did. or (US- 20030220026-\$ or US- 20040147971-\$ or US- 20040147972-\$ or US- 20040209156-\$ or US- 20040225333-\$ or US- 20040241534-\$ or US- 20050017682-\$ or US-	US-PGPUB; USPAT	OR	ON	2010/03/26 15:10

20050164087-\$ or US-  
20050194934-\$ or US-  
20060093923-\$ or US-  
20060263676-\$ or US-  
20060275665-\$ or US-  
20070170892-\$ or US-  
20070222416-\$ or US-  
20080084185-\$ or US-  
20080193844-\$ or US-  
20080224667-\$ or US-  
20080238370-\$ or US-  
20090115374-\$ or US-  
20090136838-\$).did.  
or (US-6165646-\$ or  
US-5576121-\$ or US-  
6022640-\$ or US-  
6139989-\$ or US-  
6291101-\$ or US-  
6365300-\$ or US-  
6589694-\$ or US-  
6716555-\$ or US-  
7214447-\$ or US-  
5654622-\$ or US-  
5677086-\$ or US-  
5869949-\$ or US-  
6441589-\$ or US-  
6476585-\$ or US-  
6660433-\$ or US-  
6818352-\$ or US-  
6831669-\$ or US-  
6873134-\$ or US-  
6879132-\$ or US-  
6909915-\$ or US-  
7020519-\$ or US-  
7071653-\$ or US-  
7079893-\$ or US-  
7095212-\$ or US-  
7136701-\$ or US-  
7150941-\$).did. or  
(US-7337010-\$ or US-  
7535201-\$ or US-  
7583058-\$ or US-  
4668596-\$ or US-  
5324599-\$ or US-  
5395711-\$ or US-  
5401599-\$ or US-  
5432029-\$ or US-  
5506075-\$ or US-  
5510212-\$ or US-  
5521027-\$ or US-  
5525443-\$ or US-  
5556721-\$ or US-  
5558953-\$ or US-

5587250-\$ or US-  
5608305-\$ or US-  
5665492-\$ or US-  
5677083-\$ or US-  
5702843-\$ or US-  
5705292-\$ or US-  
5725968-\$ or US-  
RE35818-\$ or US-  
5773168-\$ or US-  
5798189-\$ or US-  
5807643-\$ or US-  
5869208-\$ or US-  
5871863-\$).did. or  
(US-5874185-\$ or US-  
5976731-\$ or US-  
5981107-\$ or US-  
5998065-\$ or US-  
6013393-\$ or US-  
6037095-\$ or US-  
6051342-\$ or US-  
6090506-\$ or US-  
6124061-\$ or US-  
6132902-\$ or US-  
6132903-\$ or US-  
6136471-\$ or US-  
6136475-\$ or US-  
6156457-\$ or US-  
6180282-\$ or US-  
6183908-\$ or US-  
6207327-\$ or US-  
6210835-\$ or US-  
6210836-\$ or US-  
6225010-\$ or US-  
6231626-\$ or US-  
6232014-\$ or US-  
6235066-\$ or US-  
6261712-\$ or US-  
6291102-\$ or US-  
6322599-\$ or US-  
6338920-\$).did. or  
(US-6372387-\$ or US-  
6376125-\$ or US-  
6379846-\$ or US-  
6391496-\$ or US-  
6399244-\$ or US-  
6402795-\$ or US-  
6416902-\$ or US-  
6428935-\$ or US-  
6447955-\$ or US-  
6458483-\$ or US-  
6468698-\$ or US-  
6506523-\$ or US-  
6534214-\$ or US-

		6537705-\$ or US- 6558847-\$ or US- 6582854-\$ or US- 6617074-\$ or US- 6627344-\$ or US- 6627352-\$ or US- 6638662-\$ or US- 6645667-\$ or US- 6653015-\$ or US- 6656633-\$ or US- 6686092-\$).did.				
S35	113985	mitsui.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:13
S36	724	S35 and (okutu or yoshikawa).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:13
S37	6	S36 and (battery same (charg\$3 and discharg\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:13
S38	16	((JUNKO) near2 (NISHIYAMA)).INV.	US-PGPUB; USPAT	OR	ON	2010/03/26 15:17
S39	5	((CHIKA) near2 (KANBE)).INV.	US-PGPUB; USPAT	OR	ON	2010/03/26 15:18
S40	565281	NEC.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:29
S41	90	S40 and (puls\$3 and paus\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:29



S42	6	S40 and (pulse\$3 and pause\$3).CLM.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 15:30
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**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S43	0	((JUNKO) near2 (NISHIYAMA)).INV.	UPAD	OR	ON	2010/03/26 15:19
S44	0	((CHIKA) near2 (KANBE)).INV.	UPAD	OR	ON	2010/03/26 15:19
S45	0	(pause executed period not less than period required voltage lithium ion secondary battery restore not less than 70% open circuit voltage lithium ion secondary battery discharged voltage thereof reaches discharge end voltage lithium ion secondary battery discharged).CLM.	US-PGPUB; UPAD	AND	ON	2010/03/26 15:49
S46	0	(pause executed period not less than period required voltage lithium battery restore not less than 70% open circuit voltage discharged voltage reaches discharge end voltage).CLM.	US-PGPUB; UPAD	AND	ON	2010/03/26 15:50
S47	1	(pause executed period period required voltage lithium battery restore 70% open circuit voltage discharged voltage reaches discharge end voltage).CLM.	US-PGPUB; UPAD	AND	ON	2010/03/26 15:50

**3/ 26/ 2010 3:51:07 PM**

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 \ 10528042\_ NEC\_ Nishiyama\_ Pulse Charging And Discharging Lithium Battery.wsp**